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New claims:

- 10 2. A precipitated silica of claim 1, characterized in that it has a DBP absorption of from 180 to 320 g/100 g.
- 15 3. A precipitated silica of claim 1 or 2, characterized in that it has a BET/CTAB surface ratio of from 1.0 to 1.6.
- 20 4. A precipitated silica of claim 3 characterized in that it has a BET/CTAB surface ratio of from 1.2 to 1.6.
- 25 5. A precipitated silica of claim 1 or 2, characterized in that it has a BET/CTAB surface ratio of from 1.33 to 2.43.
- 30 6. A precipitated silica of any one of claims 1 to 5, characterized in that it has a wk coefficient ≤ 3.4.
- 7. A precipitated silica of any of claims 1 to 6,
 35 characterized in that
 its surface has been modified with organosilanes
 of the formulae

 $[R^{1}_{n}(RO)_{r}Si(Alk)_{m}(Ar)_{p}]_{q}[B] \qquad (I),$ $R^{1}_{n}(RO)_{3-n}Si(Alkyl) \qquad (II),$ or $R^{1}_{n}(RO)_{3-n}Si(Alkenyl) \qquad (III),$

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in which

- B is -SCN, -SH, $-SC(O)CH_3$, $-SC(O)(CH_2)_6CH_3$, -C1, $-NH_2$, $-OC(O)CHCH_2$, $-OC(O)C(CH_3)CH_2$ (if q=1), or $-S_x-$ (if q=2),
- R and R¹ are each an aliphatic, olefinic, aromatic or arylaromatic radical having 2 to 30 carbon atoms, and possibly being substituted optionally with the following groups: hydroxyl, amino, alkoxide, cyanide, thiocyanide, halogen, sulfonic acid, sulfonic ester, thiol, benzoic acid, benzoic ester, carboxylic acid, carboxylic ester, acrylate, methacrylate or organosilane radical, it being possible for R and R¹ to have an identical or different definition or substitution,

n is 0, 1 or 2,

- Alk is a divalent unbranched or branched hydrocarbon radical having 1 to 6 carbon atoms, m is 0 or 1,
- Ar is an aryl radical having 6 to 12 carbon atoms, preferably 6 carbon atoms, which can be substituted by the following groups: hydroxyl, amino, alkoxide, cyanide, thiocyanide, halogen, sulfonic acid, sulfonic ester, thiol, benzoic acid, benzoic ester, carboxylic acid, carboxylic ester or organosilane radical,
 - p is 0 or 1, with the proviso that p and n are not simultaneously $\mathbf{0}$,
 - x is a number from 2 to 8,
- 35 r is 1, 2 or 3, with the proviso that r + n + m + p = 4,
 - Alkyl is a monovalent unbranched or branched unsaturated hydrocarbon radical having 1 to 20

carbon atoms, preferably 2 to 8 carbon atoms, Alkenyl is a monovalent unbranched or branched unsaturated hydrocarbon radical having 2 to 20 carbon atoms, preferably 2 to 8 carbon atoms.

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8. A process for preparing a precipitated silica having

BET surface areas in the range $150-400 \text{ m}^2/\text{g}$ CTAB surface areas in the range $145-350 \text{ m}^2/\text{g}$

10 Al₂O₃ content in the range 0.2-5% by weight

where

- a) an aqueous waterglass solution is introduced initially,
- b) waterglass and sulfuric acid are metered simultaneously into this initial charge at from 55 to 95°C for from 30 to 100 minutes with stirring,
 - c) the mixture is acidified with sulfuric acid to a pH of about 5, and
- d) a product is filtered and dried, 20 with the proviso that aluminum compounds are added in steps b) and/or c).
- A process of claim 8, 9. 25 characterized in that the components supplied in steps b) and c) each have an identical or different concentration.
- A process of claim 8 or 9, 10. characterized in that -30 the components supplied in steps b) and c) each have an identical feed rate.
- A process of claim 8 or 9, 11. 35 characterized in that the components supplied in steps b) and c) each have a different feed rate.

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- 12. A process of claim 11,
 characterized in that
 with an identical concentration of the components
 in steps b) and c) the feed rate in step c) is
 from 110 to 200% of the feed rate in step b).
- 13. A process of claim 11,
 characterized in that
 with an identical concentration of the components

 10 in steps b) and c) the feed rate in step c) is
 from 50 to 100% of the feed rate in step b).
- 14. A process of claim 8 to 13, characterized in that
 15 the drying is carried out by spin-flash, nozzle tower or spray drying and/or granulation with/without a roll compactor.
- A process of any one of claims 8 to 14, 15. 20 characterized in that precipitated silica is modified the organosilanes of the formula I to III in mixtures of from 0.5 to 50 parts, based on 100 parts of precipitated silica, in particular from 1 to 15 parts, based on 100 parts of precipitated silica, 25 reaction between precipitated silica being carried out during organosilane preparation of the mixture (in situ) or externally spray application and subsequent thermal conditioning of the mixture or by mixing of the 30 silane and the silica suspension with subsequent drying and thermal conditioning.
- 16. A vulcanizable rubber mixture or vulcanizate comprising the precipitated silica of any one of claims 1 to 6 or the precipitated silica prepared by any one of claims 8 to 15.

- 17. A tire comprising a precipitated silica of any one of claims 1 to 6 or a precipitated silica prepared by any one of claims 8 to 15.
- 5 18. The use of silica of any one of claims 1 to 6 in battery separators, antiblocking agents, flatting agents in paints, paper coatings of defoamers, in gaskets, keypads, conveyor belts or window seals.